OM protein - protein search, using sw model

GenCore version 5.1.6
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Run on:    May 29, 2003, 15:20:24 ; Search time 45 seconds
                                    (without alignments)
                                    182.203 Million cell updates/sec

Title:         US-09-924-102-2
Perfect score: 418
Sequence:      1 MLLSTHLFIYLFIYFLSYSL........RWGGQGGRGGTADTGGMFLS 81

Scoring table: BLOSUM62
               Gapop 10.0 , Gapext 0.5
Searched:      383519 seqs, 101223694 residues

Total number of hits satisfying chosen parameters:    383519

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

Database :    Published_Applications_AA:*
          1:  /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep:*
          2:  /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep:*
          3:  /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*
          4:  /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
          5:  /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep:*
          6:  /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep:*
          7:  /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep:*
          8:  /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep:*
          9:  /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep:*
         10:  /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep:*
         11:  /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
         12:  /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep:*
         13:  /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
         14:  /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | % Query Match | Length | DB | ID | Description |
|---|---|---|---|---|---|---|
| 1 | 418 | 100.0 | 81 | 9 | US-09-924-102-2 | Sequence 2, Appli |
| 2 | 90 | 21.5 | 20 | 9 | US-09-924-102-5 | Sequence 5, Appli |
| 3 | 71 | 17.0 | 181 | 10 | US-09-811-284-236 | Sequence 236, App |
| 4 | 68 | 16.3 | 462 | 10 | US-09-815-242-10965 | Sequence 10965, A |
| 5 | 68 | 15.6 | 65 | 9 | US-09-924-102-1 | Sequence 1, Appli |
| 6 | 65 | 15.6 | 65 | 10 | US-10-203-081-1 | Sequence 1, Appli |
| 7 | 65 | 15.6 | 222 | 9 | US-10-012-896-479 | Sequence 479, App |
| 8 | 65 | 15.6 | 222 | 9 | US-09-895-793-479 | Sequence 479, App |
| 9 | 65 | 15.6 | 222 | 9 | US-09-895-814-479 | Sequence 479, App |
| 10 | 65 | 15.6 | 222 | 9 | US-10-010-940-479 | Sequence 479, App |
| 11 | 65 | 15.6 | 222 | 9 | US-09-759-143-479 | Sequence 479, App |
| 12 | 65 | 15.6 | 222 | 10 | US-09-780-669-479 | Sequence 479, App |
| 13 | 65 | 15.6 | 222 | 10 | US-09-822-827-479 | Sequence 479, App |
| 14 | 64.5 | 15.4 | 414 | 9 | US-09-291-417-7 | Sequence 7, Appli |
| 15 | 64 | 15.3 | 633 | 10 | US-09-871-615-5 | Sequence 5, Appli |
| 16 | 63.5 | 15.2 | 80 | 10 | US-09-864-761-35659 | Sequence 35659, A |
| 17 | 63 | 15.1 | 101 | 10 | US-09-864-761-33599 | Sequence 33599, A |
| 18 | 63 | 15.1 | 1079 | 9 | US-09-820-843A-20 | Sequence 20, Appl |
| 19 | 62 | 14.8 | 50 | 9 | US-09-764-872-324 | Sequence 324, App |
| 20 | 62 | 14.8 | 63 | 9 | US-10-112-793-28 | Sequence 28, Appl |
| 21 | 61 | 14.6 | 131 | 9 | US-09-269-921-104 | Sequence 104, App |
| 22 | 61 | 14.6 | 141 | 10 | US-09-864-761-36181 | Sequence 36181, A |
| 23 | 61 | 14.6 | 249 | 10 | US-09-730-374-3 | Sequence 3, Appli |
| 24 | 61 | 14.6 | 876 | 10 | US-09-815-242-13874 | Sequence 13874, A |
| 25 | 60 | 14.4 | 57 | 9 | US-10-023-282-460 | Sequence 460, App |
| 26 | 60 | 14.4 | 77 | 10 | US-09-925-302-608 | Sequence 608, App |
| 27 | 60 | 14.4 | 127 | 9 | US-09-956-206A-65 | Sequence 65, Appl |
| 28 | 60 | 14.4 | 219 | 9 | US-10-006-856A-271 | Sequence 271, App |
| 29 | 60 | 14.4 | 222 | 9 | US-10-006-818A-180 | Sequence 180, App |
| 30 | 60 | 14.4 | 222 | 9 | US-10-006-856A-180 | Sequence 180, App |
| 31 | 60 | 14.4 | 222 | 9 | US-09-946-374-180 | Sequence 180, App |
| 32 | 60 | 14.4 | 222 | 9 | US-10-015-393A-180 | Sequence 180, App |
| 33 | 60 | 14.4 | 222 | 9 | US-10-012-121A-180 | Sequence 180, App |
| 34 | 60 | 14.4 | 222 | 9 | US-09-869A-180 | Sequence 180, App |
| 35 | 60 | 14.4 | 222 | 9 | US-10-006-116A-180 | Sequence 180, App |
| 36 | 60 | 14.4 | 222 | 9 | US-10-006-117A-180 | Sequence 180, App |
| 37 | 60 | 14.4 | 222 | 9 | US-10-013-913A-180 | Sequence 180, App |
| 38 | 60 | 14.4 | 222 | 9 | US-10-017-527A-180 | Sequence 180, App |
| 39 | 60 | 14.4 | 222 | 9 | US-10-007-194A-180 | Sequence 180, App |
| 40 | 60 | 14.4 | 222 | 9 | US-10-013-430A-180 | Sequence 180, App |
| 41 | 60 | 14.4 | 222 | 9 | US-10-011-671A-180 | Sequence 180, App |
| 42 | 60 | 14.4 | 222 | 9 | US-10-012-755A-180 | Sequence 180, App |
| 43 | 60 | 14.4 | 625 | 10 | US-09-331-631A-5 | Sequence 5, Appli |
| 44 | 59.5 | 14.2 | 108 | 9 | US-10-091-483-169 | Sequence 169, Appl |
| 45 | 59.5 | 14.2 | 108 | 10 | US-09-764-846-169 | Sequence 169, App |

ALIGNMENTS

RESULT 1
US-09-924-102-2

; Sequence 2, Application US/09924102
; Publication No. US20020188104A1
; GENERAL INFORMATION:
; APPLICANT: KORNBLUTH, SALLY A
; TITLE OF INVENTION: HOLLEY, CHRISTOPHER
; TITLE OF INVENTION: REAPER PROTEIN
; FILE REFERENCE: 1579-470
; CURRENT APPLICATION NUMBER: US/09/924,102
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/223,699
; PRIOR FILING DATE: 2000-08-08
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2
; LENGTH: 81
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: human Reaper
US-09-924-102-2

  Query Match             100.0%;  Score 418;  DB 9;  Length 81;
  Best Local Similarity   100.0%;
  Matches    81;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MLLSTHLFIYLFIYFLSYSLGDRARLCLRKTKQQOKEQQILRQSEVLFRSEVLFRSEFLRKTGKKG 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MLLSTHLFIYLFIYFLSYSLGDRARLCLRKTKQQOKEQQILRQSEVLFRSEVLFRSEFLRKTGKKG 60

Qy         61 RWGGQGGRGGTADTGGMFLS 81
              ||||||||||||||||||||
Db         61 RWGGQGGRGGTADTGGMFLS 81

RESULT 2
US-09-924-102-5

; Sequence 5, Application US/09924102
; Publication No. US20020188104A1
; GENERAL INFORMATION:
; APPLICANT: KORNBLUTH, SALLY A

;  APPLICANT: HOLLEY, CHRISTOPHER
;  TITLE OF INVENTION: REAPER PROTEIN
;  FILE REFERENCE: 1579-470
;  CURRENT APPLICATION NUMBER: US/09/924,102
;  CURRENT FILING DATE:
;  PRIOR APPLICATION NUMBER: 2001-08-08
;  PRIOR APPLICATION NUMBER: 60/223,699
;  PRIOR FILING DATE: 2000-08-08
;  NUMBER OF SEQ ID NOS: 14
;  SOFTWARE: Patentin Ver. 2.1
   SEQ ID NO 5
;  LENGTH: 20
;  TYPE: PRT
;  ORGANISM: Artificial Sequence
;  FEATURE:
;  OTHER INFORMATION: Description of Artificial Sequence: human Reaper
US-09-924-102-5

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Qy      36 KEQQILRQSEVLFRSETLRK 55
           ||:|||||||||||||||||
Db       1 KEKQILRQSEVLFRSETLRK 20
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Query Match     21.5%;  Score 90;  DB 9;  Length 20;
Best Local Similarity   95.0%;  Pred. No. 0.0014;
Matches   19;  Conservative  1;  Mismatches  0;  Indels  0;  Gaps  0;

RESULT 3
US-09-811-284-236
; Sequence 236, Application US/09811284
; Patent No. US20020058306A1
; GENERAL INFORMATION:
; APPLICANT: Vogeli, Gabriel
; TITLE OF INVENTION: US20020058306A1e1 G Protein-Coupled Receptors
; CURRENT APPLICATION NUMBER: US/09/811,284
; CURRENT FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/189,907
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/189,783
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/189,918
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/189,918
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/189,960
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/189,917
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/192,945
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/192,935
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: 60/192,916
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: 60/192,923
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: 60/192,923
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: 60/192,933
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: 60/192,830
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: 60/192,234
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: 60/192,155
; PRIOR FILING DATE: 2000-03-24
; PRIOR APPLICATION NUMBER: 60/192,155
; PRIOR FILING DATE: 2000-03-27
; SOFTWARE: Patentin version 3.0
  SEQ ID NO 236
; LENGTH: 181
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-811-284-236

Query Match     17.0%;  Score 71;  DB 10;  Length 181;
Best Local Similarity   70.0%;  Pred. No. 2;
Matches   14;  Conservative  2;  Mismatches  4;  Indels  0;  Gaps  0;

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Qy      19 SLGDRARlCLRKTKQQQKEQ 38
           ||||||||||:||:|:| |
Db       1 SLGDRARLCLKKKKETGSKSQ 20
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RESULT 4
US-09-815-242-109965
; Sequence 10965, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Karl L.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
  Prokaryotes
; FILE REFERENCE: ELITRA.011A
; CURRENT APPLICATION NUMBER: US/09/815,242
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSEQ for Windows Version 4.0
  SEQ ID NO 10965
; LENGTH: 462
; TYPE: PRT
; ORGANISM: Haemophilus influenzae
US-09-815-242-109965

Query Match     16.3%;  Score 68;  DB 10;  Length 462;
Best Local Similarity   27.9%;  Pred. No. 12;
Matches   29;  Conservative  14;  Mismatches  31;  Indels  30;  Gaps  5;

```
Qy       3 LSTH------LFIYLFIYFLSYSLGDRA-----------------RLCLRKTKQQQKEQILRQ 43
           |||       :|:|||||||||:||:|                     :|:|:|
Db     360 LSEHVKNQVDDKMFVKMEAIINSMTLKERANPDIIKGSRRRRIALGSGTQVDVNKLLKQ 419

Qy      44 SEVLFR-SETLRK-----------TGKKGRRWGGGQGRGGTADTGGMF 79
           :|:| |   :|| :|||                   ||||
Db     420 FDEMQRMMKKMRKGGMAKMRGMQGILMGGGLGGLGG---LGGMF 460
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RESULT 5
US-09-924-102-1
; Sequence 1, Application US/09924102
; Publication No. US20020188104A1
; GENERAL INFORMATION:
; APPLICANT: KORNBLUTH, SALLY A
; APPLICANT: HOLLEY, CHRISTOPHER
; TITLE OF INVENTION: REAPER PROTEIN
; FILE REFERENCE: 1579-470
; CURRENT APPLICATION NUMBER: US/09/924,102
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/223,699
; PRIOR FILING DATE: 2000-08-08
; NUMBER OF SEQ ID NOS: 14

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;   SOFTWARE: PatentIn Ver. 2.1
;   SEQ ID NO 1
;   LENGTH: 65
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Drosophila Reaper
US-09-924-102-1

Qy   16  LSYSLGDRARLCLRKTKQQQKEQQILRQSEVLFR------SETLR------KTGKKGRR  62
             ::: :|:| ||:  ::|||||||| :  :| : |||
Db    3  VAFYIPDQATL-LREA--EQKEQQILRLRESQWRFLATVVLETLRQYTSCHPKTGRKSGK  59

Qy   63  W  63
             :
Db   60  Y  60

RESULT 6
US-10-203-081-1
;   Sequence 1, Application US/10203081
;   Publication No. US20030082527A1
;   GENERAL INFORMATION:
;   APPLICANT: Smith, Gary R.
;   TITLE OF INVENTION: Viral Cell Death Protein and Uses Therefore
;   FILE REFERENCE: PU3909
;   CURRENT APPLICATION NUMBER: US/10/203,081
;   CURRENT FILING DATE: 2002-08-05
;   NUMBER OF SEQ ID NOS: 34
;   SOFTWARE: PatentIn Ver. 2.1
;   SEQ ID NO 1
;   LENGTH: 65
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster

Query Match              15.6%;  Score 65;  DB 9;  Length 65;
Best Local Similarity    37.7%;  Pred. No. 3;
Matches   23;  Conservative 11;  Mismatches 11;  Indels 16;  Gaps 4;

Qy   16  LSYSLGDRARLCLRKTKQQQKEQQILRQSEVLFR------SETLR------KTGKKGRR  62
             ::: :|:| ||:  ::|||||||| :  :| : |||
Db    3  VAFYIPDQATL-LREA--EQKEQQILRLRESQWRFLATVVLETLRQYTSCHPKTGRKSGK  59

Qy   63.W 63
             :
Db   60 Y 60

RESULT 7
US-10-012-896-479
;   Sequence 479, Application US/10012896
;   Publication No. US20020183251A1
;   GENERAL INFORMATION:
;   APPLICANT: Xu, Jiangchun
;   APPLICANT: Dillon, Davin C.
;   APPLICANT: Mitcham, Jennifer L.
;   APPLICANT: Harlocker, Susan L.
;   APPLICANT: Jiang, Yuqiu
;   APPLICANT: Kalos, Michael D.
;   APPLICANT: Retter, Marc W.
;   APPLICANT: Stolk, John A.
;   APPLICANT: Day, Craig H.
;   APPLICANT: Vedvick, Thomas S.
;   APPLICANT: Carter, Darrick
;   APPLICANT: Li, Samuel X.
;   APPLICANT: Wang, Aijun
;   APPLICANT: Skeiky, Yasir A.W.
;   APPLICANT: Hepler, William T.
;   APPLICANT: Henderson, Robert A.
;   APPLICANT: Hural, John
;   APPLICANT: McNeill, Patricia D.
;   APPLICANT: Houghton, Raymond L.
;   APPLICANT: Vinals de Bassols, Carlota
;   APPLICANT: Foy, Teresa
;   APPLICANT: Fanger, Gary R.
;   APPLICANT: Wantanabe, Yoshihiro
;   APPLICANT: Meagher, Madeleine Joy
;   TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
;   TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
;   FILE REFERENCE: 210121.427C27
;   CURRENT APPLICATION NUMBER: US/10/012,896
;   CURRENT FILING DATE: 2001-12-10
;   NUMBER OF SEQ ID NOS: 1011
;   SOFTWARE: FastSEQ for Windows Version 3.0
;   SEQ ID NO 479
;   LENGTH: 222
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-012-896-479

Query Match              15.6%;  Score 65;  DB 9;  Length 222;
Best Local Similarity    52.0%;  Pred. No. 12;
Matches   13;  Conservative 6;  Mismatches 2;  Indels 4;  Gaps 1;

Qy   11  LFIYFLSYSLGDRARLCLRKRTKQQQ  35
             :| ||  |||||||||| : ::|:|
Db  199  IFFYF----LGNQARLCLRKRKKKKQ 219

RESULT 8
US-09-895-793-479
;   Sequence 479, Application US/09895793
;   Publication No. US20020192763A1
;   GENERAL INFORMATION:
;   APPLICANT: Xu, Jiangchun
;   APPLICANT: Dillon, Davin C.
;   APPLICANT: Mitcham, Jennifer L.
;   APPLICANT: Harlocker, Susan L.
;   APPLICANT: Jiang, Yuqiu
;   APPLICANT: Kalos, Michael D.
;   APPLICANT: Retter, Marc W.
;   APPLICANT: Stolk, John A.
;   APPLICANT: Day, Craig H.
;   APPLICANT: Vedvick, Thomas S.
;   APPLICANT: Carter, Darrick
;   APPLICANT: Li, Samuel X.
;   APPLICANT: Wang, Aijun
;   APPLICANT: Skeiky, Yasir A.W.
;   APPLICANT: Hepler, William T.
;   APPLICANT: Henderson, Robert A.
;   APPLICANT: Hural, John
;   APPLICANT: McNeill, Patricia D.
;   APPLICANT: Houghton, Raymond L.
;   APPLICANT: Vinals de Bassols, Carlota
;   APPLICANT: Foy, Teresa
;   APPLICANT: Fanger, Gary R.
;   TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
;   TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
;   FILE REFERENCE: 210121.534C2
;   CURRENT APPLICATION NUMBER: US/09/895,793
;   CURRENT FILING DATE: 2001-06-29
;   NUMBER OF SEQ ID NOS: 982
;   SOFTWARE: FastSEQ for Windows Version 3.0
;   SEQ ID NO 479
;   LENGTH: 222
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-895-793-479

Query Match              15.6%;  Score 65;  DB 9;  Length 222;
Best Local Similarity    52.0%;  Pred. No. 12;
```

Qy          11 LFIYFLSYSLGDRARLCLRKTKQQQ 35
               |||   ||::||||||:| |::|
Db         199 IFFYF---LGNQARLCLKRKRKKQ 219

RESULT 9

US-09-895-814-479
Sequence 479, Application US/09895814
Publication No. US20019329GA1
GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqui
; APPLICANT: Kalos, Michael D.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William T.
; APPLICANT: Henderson, Robert A.
; APPLICANT: Hural, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Vinals de Bassols, Carlota
; APPLICANT: Foy, Teresa
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
  DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427026
; CURRENT APPLICATION NUMBER: US/09/895,814
; CURRENT FILING DATE: 2001-06-29
; NUMBER OF SEQ ID NOS: 990
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 479
; LENGTH: 222
; TYPE: PRT
; ORGANISM: Homo sapiens

US-09-895-814-479

Query Match             15.6%;  Score 65;  DB 9;  Length 222;
Best Local Similarity   52.0%;  Pred. No. 12;
Matches     13;  Conservative    6;  Mismatches    2;  Indels    4;  Gaps    1;

Qy          11 LFIYFLSYSLGDRARLCLRKTKQQQ 35
               |||   ||::||||||:| |::|
Db         199 IFFYF---LGNQARLCLKRKRKKQ 219

RESULT 10

US-10-010-940-479
Sequence 479, Application US/10010940
Publication No. US20030088062A1
GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang Yuqui
; APPLICANT: Reed, Steven G.
; APPLICANT: Kalos, Michael
; APPLICANT: Fanger, Gary
; APPLICANT: Retter, Mark
; APPLICANT: Solk, John
; APPLICANT: Day, Craig
; APPLICANT: Mitcham, Jennifer L.

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND

; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427D3
; CURRENT APPLICATION NUMBER: US/10/010,940
; CURRENT FILING DATE: 2001-12-05
; NUMBER OF SEQ ID NOS: 575
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 479
; LENGTH: 222
; TYPE: PRT
; ORGANISM: Homo sapiens

US-10-010-940-479

Query Match             15.6%;  Score 65;  DB 9;  Length 222;
Best Local Similarity   52.0%;  Pred. No. 12;
Matches     13;  Conservative    6;  Mismatches    2;  Indels    4;  Gaps    1;

Qy          11 LFIYFLSYSLGDRARLCLRKTKQQQ 35
               |||   ||::||||||:| |::|
Db         199 IFFYF---LGNQARLCLKRKRKKQ 219

RESULT 11

US-09-759-143-479
Sequence 479, Application US/09759143
Patent No. US20020022248A1
GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqui
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
  DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427023
; CURRENT APPLICATION NUMBER: US/09/759,143
; CURRENT FILING DATE: 2001-01-12
; NUMBER OF SEQ ID NOS: 934
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 479
; LENGTH: 222
; TYPE: PRT
; ORGANISM: Homo sapiens

US-09-759-143-479

Query Match             15.6%;  Score 65;  DB 10;  Length 222;
Best Local Similarity   52.0%;  Pred. No. 12;
Matches     13;  Conservative    6;  Mismatches    2;  Indels    4;  Gaps    1;

Qy          11 LFIYFLSYSLGDRARLCLRKTKQQQ 35
               |||   ||::||||||:| |::|
Db         199 IFFYF---LGNQARLCLKRKRKKQ 219

RESULT 12

US-09-780-669-479
Sequence 479, Application US/09780669
Patent No. US20020051977A1
GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqui
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; APPLICANT: Hural, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
;     DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427024
; CURRENT APPLICATION NUMBER: US/09/780,669
; CURRENT FILING DATE: 2001-02-09
; NUMBER OF SEQ ID NOS: 943
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 479
;   LENGTH: 222
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-780-669-479

Query Match         15.6%;  Score 65;  DB 10;  Length 222;
Best Local Similarity  52.0%;  Pred. No. 12;
Matches   13;  Conservative   6;  Mismatches   2;  Indels   4;  Gaps   1;

Qy   11 LFIYFLSYSLGDRARLCLRKTKQQQ 35
         :||||||:||||:|:||| |:|
Db  199 IFFYF---LGNQARLCLKKRKKKQ 219

RESULT 13
US-09-822-827-479
; Sequence 479, Application US/09822827
; Patent No. US20020081680A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
;     DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.534C1
; CURRENT APPLICATION NUMBER: US/09/822,827
; CURRENT FILING DATE: 2001-03-28
; NUMBER OF SEQ ID NOS: 982
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 479
;   LENGTH: 222
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-822-827-479

Query Match         15.6%;  Score 65;  DB 10;  Length 222;
Best Local Similarity  52.0%;  Pred. No. 12;
Matches   13;  Conservative   6;  Mismatches   2;  Indels   4;  Gaps   1;

Qy   11 LFIYFLSYSLGDRARLCLRKTKQQQ 35
         :||||||:||||:|:||| |:|
Db  199 IFFYF---LGNQARLCLKKRKKKQ 219

RESULT 14
US-09-291-417-7
; Sequence 7, Application US/09291417A
; Publication No. US20030050230A1
; GENERAL INFORMATION:
; APPLICANT: PLOWMAN, GREGORY

; APPLICANT: MARTINEZ, RICARDO
; APPLICANT: WHYTE, DAVID
; TITLE OF INVENTION: STE20-RELATED PROTEIN KINASES
; FILE REFERENCE: 240/300
; CURRENT APPLICATION NUMBER: US/09/291,417A
; CURRENT FILING DATE: 1999-04-13
; EARLIER APPLICATION NUMBER: US 60/081,784
; EARLIER FILING DATE: 1998-04-14
; NUMBER OF SEQ ID NOS: 147
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 7
;   LENGTH: 414
;   TYPE: PRT
;   ORGANISM: Mammalian (Human) STLK4
;   FEATURE:
;   OTHER INFORMATION: "Xaa" stands for any amino acid.
US-09-291-417-7

Query Match         15.4%;  Score 64.5;  DB 9;  Length 414;
Best Local Similarity  35.2%;  Pred. No. 27;
Matches   19;  Conservative   8;  Mismatches   26;  Indels   1;  Gaps   1;

Qy   24 ARLCLRKTKQQQKEQQILRQSEVLFRSETLRKTGKKGRRWGGQGGRGGTADTGG 77
         | |:  | :::  :|| | | ::||| :||:|| : | |:|    |  || ||
Db  170 AELLRHKFFQKAKNKEFL-QEKTLQRAPTISERAKKVRRVPGSSGRLHKTEDGG 222

RESULT 15
US-09-871-615-5
; Sequence 5, Application US/09871615
; Patent No. US20020061527A1
; GENERAL INFORMATION:
; APPLICANT: Wei et al.
; TITLE OF INVENTION: Human DNA Topoisomerase 1 Alpha
; FILE REFERENCE: Pf118D3
; CURRENT APPLICATION NUMBER: US/09/871,615
; CURRENT FILING DATE: 2001-06-04
; PRIOR APPLICATION NUMBER: 09/325,430
; PRIOR FILING DATE: 1999-06-04
; PRIOR APPLICATION NUMBER: 09/033,153
; PRIOR FILING DATE: 1998-03-02
; PRIOR APPLICATION NUMBER: 08/458,477
; PRIOR FILING DATE: 1995-06-02
; PRIOR APPLICATION NUMBER: PCT/US94/05701
; PRIOR FILING DATE: 1994-05-18
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 5
;   LENGTH: 633
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-871-615-5

Query Match         15.3%;  Score 64;  DB 10;  Length 633;
Best Local Similarity  30.0%;  Pred. No. 48;
Matches   18;  Conservative   9;  Mismatches   33;  Indels   0;  Gaps   0;

Qy   18 YSLGDRARLCLRKTKQQQKEQQILRQSEVLFRSETLRKTGKKGRRWGGQGGRGGTADTGG 77
         | :  | | :|  |:  |:| | ::| | | :||:||: | |:  |   : |   || ||
Db  312 YETARLRKKCVDKIRNQYREDWKSKEMKVVRQRAVALYFIDKLALRAGNEKEGETADTVG 371

Search completed: May 29, 2003, 15:29:27
Job time : 51 secs